Index of Claims

| Application/Control No | App | licatio | n/Conti | rol No. |
|------------------------|-----|---------|---------|---------|
|------------------------|-----|---------|---------|---------|

10/662,822

Examiner

**Ching Chang** 

Applicant(s)/Patent under Reexamination

HUGHES ET AL.

Art Unit

3748

Rejected Allowed

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
|   | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

| Claim  |          |
|--|----------|
|  |          |
| 1  |          |
| 3  |          |
| S  | _        |
| 5  | _        |
| Second   S | _        |
| 11   | _        |
| \$\begin{array}{c c c c c c c c c c c c c c c c c c c  | -        |
| 9  |          |
| 11   | $\dashv$ |
| 11   | $\dashv$ |
| 13   | $\dashv$ |
| 13   | $\dashv$ |
| 15   | $\dashv$ |
| 15 V 65 66 67 67 68 69 20 70 71 71 72 22 72 72 72 72 72 72 72 72 73 74 74 75 75 76 76 77 77 78 79 30 80 80   | $\neg$   |
| 16   |          |
| 18 68 69 70 70 71 71 72 72 73 73 74 74 74 75 75 75 76 76 77 77 78 78 79 79 30 80   |          |
| 10   |          |
| 20   |          |
| 21 V 71 72 73 73 74 74 75 75 76 76 77 77 77 78 78 79 79 79 79 79 79 79 79 79 79 79 79 79   | _        |
| 22   | _        |
| 23   | _        |
| 24   | _        |
| 25 \   |          |
| 26 1 76 77 77 28 78 79 79 30 80 80   |          |
| 27 V 77 78 78 79 79 79 80 80 80  | $\dashv$ |
| 28 78 79 79 80 80 80 80 80 80 80 80 80 80 80 80 80   | $\dashv$ |
| 29 79 80 80 80 80 80 80 80 80 80 80 80 80 80   | $\dashv$ |
| 30 80 80   | $\dashv$ |
|  | -        |
| 31 81  | ┪        |
| 32 82  | $\neg$   |
| 33 83  |          |
| 34 84  |          |
| 35 85  |          |
| 36 86  | _        |
| 37 87  | _        |
| 38 88  | _        |
| 39 89  | _        |
| 40 90 91   |          |
| 41 91 92   | $\dashv$ |
| 43 93 93   | $\dashv$ |
| 44 94 94   | $\dashv$ |
| 45 95  | $\dashv$ |
| 46 96  | $\dashv$ |
| 47 97  | $\dashv$ |
| 48 98  | 7        |
| 49 99 99   |          |
| 50 100   |          |

| Cla      | Date           |          |              |              |              |          |  |              |          |              |
|----------|----------------|----------|--------------|--------------|--------------|----------|--|--------------|----------|--------------|
|          |                |          | Γ            | Γ            |              |          |  |              |          |              |
| ā        | Original       |          | l            | l            |              | ŀ        |  |              |          |              |
| Final    | [ <u>.</u>     |          |              |              |              |          |  |              |          |              |
| -        | 0              |          |              |              |              |          |  |              |          |              |
|          | 51             | $\vdash$ | ┢            | ⊢            | -            |          | ┢  | ┢            | ┢        | _            |
| -        | 51             |          | ┝            | ⊢            | H            | ⊢        | -  | $\vdash$     | $\vdash$ | ⊢            |
| -        | 52<br>53       | ⊢        | -            | <u> </u>     | _            | <u> </u> | -  | _            | <u> </u> | <u> </u>     |
| -        | 53             | _        |              | _            | _            | _        | <u> </u>   | _            | _        | <u> </u>     |
|          | 54             | _        | <u> </u>     | <u> </u>     | L            | _        | <u> </u>   | $oxed{oxed}$ | <u> </u> | <u> </u>     |
|          | 55             | _        | <u> </u>     | <u> </u>     | _            | <u> </u> | <u> </u>   | _            | _        | _            |
| <u> </u> | 56             | _        | <u> </u>     | <u> _</u>    | _            | _        |  | <u>_</u>     | _        |              |
|          | 57             | ᆫ        | L            | 乚            | L_           |          |  |              |          |              |
|          | 58             | L        | _            | _            |              |          | L_   | _            |          |              |
|          | 59             |          | L            | <u> </u>     |              |          |  |              |          |              |
|          | 60             |          |              |              |              |          |  |              |          |              |
|          | 61             |          | Π            | Γ            |              |          |  |              |          |              |
|          | 62             | Г        | Π            | Γ            | Г            |          |  | Г            |          |              |
|          | 63             | Г        | Г            | $\Box$       | T-           | T        |  |              |          |              |
|          | 63<br>64       |          | Г            | Г            | Г            |          |  | Г            |          |              |
|          | 65             |          |              | Т            | Г            | $\vdash$ | $\vdash$   | $\vdash$     | $\vdash$ |              |
| $\vdash$ | 66             |          | $\vdash$     | $\vdash$     | $\vdash$     | $\vdash$ | $\vdash$   | $\vdash$     | _        | $\vdash$     |
| -        | 67             | $\vdash$ | $\vdash$     | $\vdash$     |              | -        | ┢─   |              | $\vdash$ | $\vdash$     |
| <u> </u> | 68             | $\vdash$ | ┝            | $\vdash$     | ╌            | -        | -  | -            | _        | H            |
| -        | 69             | -        | -            |              | $\vdash$     | -        | -  | ┢            | _        | $\vdash$     |
|          | 70             | <u> </u> | -            | -            | -            | -        | $\vdash$   | <u> </u>     | _        | $\vdash$     |
| -        | 70             | _        |              | <u> </u>     | Н            | ⊢        | ┝  | ┝            | <u> </u> | _            |
| <u> </u> | 71<br>72<br>73 | _        | <u> </u>     | <u> </u>     | <u> </u>     | _        | <u> </u>   |              | <u> </u> | L            |
| <u> </u> | 72             | <u> </u> | <u> </u>     | <u> </u>     | _            | <u> </u> | ļ  |              |          | _            |
|          | 73             | _        | ╙            | _            |              | _        | <u> </u>   | _            | ╙        | _            |
| L        | 74             | _        | _            | _            |              | _        | <u> </u>   | _            | <u> </u> |              |
|          | 75             |          |              |              |              |          |  |              |          | $oxed{oxed}$ |
|          | 76             |          |              |              |              |          | L  | L            |          |              |
|          | 77             |          | L            | L            |              |          |  |              |          |              |
|          | 78             |          |              |              |              |          |  | L            |          |              |
|          | 79             |          |              |              |              |          |  |              |          |              |
|          | 80             |          |              | П            | П            |          |  |              |          |              |
|          | 81             |          | Г            |              |              |          | Г  |              |          |              |
|          | 82             |          |              |              |              |          |  |              |          |              |
|          | 83             |          |              | Г            |              |          |  |              |          |              |
|          | 84             |          |              | <u> </u>     | Г            |          | $\vdash$   |              | $\vdash$ | Г            |
|          | 85             | <u> </u> |              |              |              |          | $\vdash$   | _            | $\vdash$ | П            |
|          | 86             | <u> </u> |              |              |              |          | $\vdash$   | $\vdash$     | -        |              |
|          | 87             | $\vdash$ | $\vdash$     | $\vdash$     | $\vdash$     | $\vdash$ | $\vdash$   | $\vdash$     | $\vdash$ | Н            |
| -        | 88             | $\vdash$ |              | -            | $\vdash$     | $\vdash$ | _  | $\vdash$     | $\vdash$ | $\vdash$     |
| -        | 89             | <u> </u> | -            | -            | $\vdash$     | $\vdash$ | <del> </del>                                     | $\vdash$     | -        | $\vdash$     |
| $\vdash$ | 90             |          | <del> </del> | <del> </del> | -            | $\vdash$ | <u> </u>   | <u> —</u>    | ├        | -            |
|          | 91             | $\vdash$ | $\vdash$     |              | $\vdash$     | $\vdash$ | -  | <del> </del> | $\vdash$ |              |
| -        | 92             | -        | ├─           | -            | <del> </del> | $\vdash$ | <del> </del>                                     | Η,           | $\vdash$ | -            |
| -        |                | $\vdash$ | -            | ⊢            | -            | -        | -  | -            | <u> </u> | -            |
|          | 93             |          | <u> </u>     | <u> </u>     |              |          | <del>                                     </del> | <b>-</b>     | <u> </u> | -            |
| <u></u>  | 94             | <b> </b> | <u> </u>     | <u> </u>     | <u> </u>     |          | <u> </u>   | <u> </u>     | $\vdash$ | Н            |
|          | 95             |          | <u> </u>     | $\vdash$     | $\vdash$     | $\vdash$ | $\vdash$   | $\vdash$     | $\vdash$ | Ш            |
| -        | 96             | _        | <u> </u>     | <u> </u>     | $oxed{oxed}$ | $\vdash$ |  | $oxed{oxed}$ | <u> </u> | Ш            |
|          | 97             |          | _            | <u> </u>     |              | L.       |  | <u> </u>     | _        | Ш            |
|          | 98             |          | _            |              |              |          |  |              | L        | Ш            |
|          | 99             |          |              |              |              |          |  |              | L.       |              |
|          | 100            |          |              |              |              |          |  |              |          |              |

| Cla      |   | _            |          | (            | Date     | е        |          |  |  |                 |
|----------|---|--------------|----------|--------------|----------|----------|----------|--|--|-----------------|
|          |   |              |          |              |          |          |          |  |  |                 |
| Final    | Original                                      |              |          |              |          |          |          |  |  |                 |
|          | 101<br>102<br>103                             |              |          |              |          |          |          |  |  |                 |
|          | 102   | L            |          | _            |          | <u> </u> | L        | <u>_</u>   |  |                 |
|          | 103   |              |          | <u> </u>     | _        | <u> </u> | _        | <u> </u>   | <u> </u>   | Ш               |
|          | 104<br>105                                    | _            | _        | ⊢            | <u> </u> | ┡        | ┡        | <u> </u>   | <u> </u>   | Щ               |
|          | 105   | <u> </u>     | -        | <del> </del> |          | ├        | ├        | -  | <del> </del>                                     | $\vdash$        |
|          | 107   | -            | -        | ⊢            | -        |          | ├—       | <del> </del>                                     | -  | $\vdash$        |
| _        | 108   |              | ┢        | $\vdash$     | -        | ├        | ┢        | -  | ├  | Н               |
|          | 109   | <del> </del> | $\vdash$ | $\vdash$     |          | $\vdash$ | $\vdash$ | $\vdash$   | $\vdash$   | Н               |
|          | 110   | H            |          | -            |          |          | <u> </u> | -  | -  | Н               |
| -        | 111   | _            | $\vdash$ | $\vdash$     |          |          |          | <del>                                     </del> |  | П               |
|          | 112   |              |          |              |          |          | T        |  |  |                 |
|          | 112   |              |          |              |          |          |          |  |  |                 |
|          | 1114  |              |          |              |          |          |          |  |  |                 |
|          | 115<br>116                                    | _            | L        |              |          | L        | <u> </u> |  | <u> </u>   | Ш               |
|          | 116   | _            | <u> </u> | _            | _        | <u> </u> | _        | _  | <u> </u>   | Ш               |
|          | 117   | _            | _        |              | L        |          | <u> </u> | _  |  | Н               |
| <u> </u> | 118<br>119                                    | _            | -        |              |          | ┢        | _        | _  | _  | Н               |
| <u> </u> | 120   |              | -        |              | ⊢        | ├        | ├        | ├  |  | $\vdash$        |
| -        | 120<br>121<br>122                             | _            | -        | _            | $\vdash$ | ⊢        | ┢        | ┢  | ⊢  | Н               |
|          | 122   |              | -        |              | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$   | ┢  | Н               |
|          | 123<br>124<br>125                             |              | $\vdash$ |              | H        |          | $\vdash$ | $\vdash$   | $\vdash$   | Н               |
|          | 124   |              |          |              | $\vdash$ |          |          |  | I  | Н               |
|          | 125   |              |          |              |          |          |          |  |  |                 |
|          | 126   |              |          |              |          |          |          |  |  |                 |
|          | 127   |              |          |              |          |          |          |  |  |                 |
|          | 128   | _            | _        |              | _        |          | _        | _  | _  | Ш               |
|          | 129   | _            |          |              |          |          | <u> </u> | _  |  | $\vdash$        |
| <u> </u> | 130   | _            | <u> </u> | _            | _        | _        |          | -  | -  | Н               |
| $\vdash$ | 126<br>127<br>128<br>129<br>130<br>131<br>132 |              | -        |              | H        | -        | ⊢        | $\vdash$   | ┝  | Н               |
|          | 133   | <del> </del> |          | -            |          | -        | -        | -  |  | Н               |
|          | 134   | $\vdash$     | $\vdash$ | _            | _        | _        | -        | <del> </del>                                     | -  | Н               |
|          | 135   |              | T        | Г            |          |          |          |  | <del>                                     </del> | П               |
|          | 136   |              |          |              |          |          |          |  |  | П               |
|          | 137<br>138<br>139                             |              |          |              |          |          |          |  |  |                 |
|          | 138   |              |          | _            |          |          |          |  |  | Ш               |
|          | 139   |              |          | <u> </u>     | <u> </u> | <u> </u> | <u> </u> | <u> </u>   | <u> </u>   | $\sqcup$        |
|          | 140   | <u> </u>     | <u> </u> | <u> </u>     | <u> </u> | <u> </u> |          |  | <u> </u> _                                       | $\vdash \vdash$ |
| _        | 141<br>142                                    | _            | ļ        | <u> </u>     | $\vdash$ | $\vdash$ | $\vdash$ | ⊢  | $\vdash$   | ⊢⊢              |
| <u> </u> | 142   | _            | -        | -            | $\vdash$ | $\vdash$ | $\vdash$ | -  | -  | ┝─┤             |
|          | 144   | _            | -        | -            | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$   | $\vdash$   | H               |
| $\vdash$ | 145   | -            |          | -            |          | -        | $\vdash$ | -  | $\vdash$   | H               |
| H        | 146   | Н            | Н        | $\vdash$     | Н        | Н        | $\vdash$ | Н  | $\vdash$   | $\vdash \vdash$ |
|          | 147   |              | П        | Г            | Г        | Г        | $\vdash$ | Г  | Г  | $\Box$          |
|          | 148   |              |          |              |          |          |          |  |  |                 |
|          | 149   |              |          |              |          |          |          |  |  |                 |
|          | 150   |              |          |              |          |          |          |  |  |                 |